

CLAIMS

1. A devitalized matrix for inducing repair of tissue defects in a mammal, comprising:

an isolated devitalized mammalian epithelial basement membrane and tunica propria immediately subjacent to said basement membrane.

2. The matrix of claim 1 wherein said basement membrane is derived from urinary bladder. *B*

3. The matrix of claim 1 wherein said basement membrane is derived from small intestine.

4. The matrix of claim 1 wherein said matrix is sutured at said tissue defect.

5. The matrix of claim 1 wherein said matrix is injected into said tissue defect.

6. The matrix of claim 1 wherein said matrix is applied to a tissue defect fixation device. *a*

7. The matrix of claim 1 wherein said matrix is mixed with a pharmaceutical agent. *B*

8. A method for inducing repair of a tissue defect in a mammal, said method comprising:

providing to a defect site, a devitalized matrix comprising a mammalian epithelial basement membrane and tunica propria immediately subjacent to said basement membrane.

9. The method of claim 8 wherein said repair comprises induction of connective tissue repair and epithelial tissue repair at said tissue defect site. *B*

10. A devitalized composition, comprising:

mammalian epithelial basement membrane and tunica propria immediately subjacent to said epithelial basement membrane, wherein said basement membrane and

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*sub a1*

*sub a2*

*sub a3*

4 tunica propria are delaminated from cells of an epithelium and abluminal portions of a  
5 tunica propria of a mammalian epithelial tissue.

1 11. A devitalized composition, comprising:

2 mammalian epithelial basement membrane, tunica propria, and smooth muscle  
3 cells of the tunica muscularis, wherein said basement membrane, tunica propria, and  
4 smooth muscle are delaminated from epithelial cells of a mammalian epithelium.

1 12. A devitalized composition, comprising:

2 mammalian epithelial basement membrane and submucosa, wherein said  
3 basement membrane and submucosa are delaminated from the cells of an epithelium and  
4 tunica muscularis of a mammalian epithelial tissue.

1 13. A method for manufacture of a devitalized tissue graft composition,  
2 comprising:

3 soaking a mammalian epithelial tissue in a deepithelializing solution to form a  
4 deepithelialized tissue having an epithelial basement membrane; and,

5 abrading said deepithelialized tissue on an abluminal surface of said tissue to form  
6 a delaminated tissue, wherein the delaminated tissue remaining after abrading said tissue,  
7 comprises at least a portion of the epithelial basement membrane and said delaminated  
8 tissue comprising said basement membrane induces endogenous tissue restoration.

1 14. The method of claim 13 wherein said deepithelializing solution comprises  
2 1.0 N saline.

1 15.<sup>5</sup> The method of claim 13<sup>3</sup> wherein said abluminal surface comprises a tissue  
2 surface deeper than said epithelial basement membrane.

1 16.<sup>6</sup> The method of claim 13<sup>3</sup> wherein said epithelial tissue comprises urinary  
2 bladder.

1 17.<sup>7</sup> The method of claim 13<sup>3</sup> wherein said epithelial tissue comprises small  
2 intestine.

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CB  
conv

sub B1

add a4  
add B2